IMACS WEB ENABLEMENT

Computer Associates (CA)

Cool: Gen

Web Client Enablement Tools

IMACS WEB ENABLEMENT

- The goal of IMACS web enablement is to provide users access to IMACS using the internet with equivalent functionality to the COOL:Gen GUI clients and Oracle Reports clients.

IMACS WEB ENABLEMENT

- Why WEB Enable IMACS?
- When Will IMACS be Web Enabled?
- What are the Short/Long-Term Costs

IMACS WEB ENABLEMENT

- **Advantages of Web Enablement**
  - Global Access
  - Thin Client
  - Fewer Communication Connectivity Issues
  - Availability of Web Enhanced Features
  - Faster Deployment of Application Updates
  - Assist in moving to DII/COE, PKI Compliance

IMACS WEB ENABLEMENT

Disadvantages of Web Enablement

- Response Time Issues
- Potential Security Issues
- Labor Costs
- Software Costs
- Hardware Costs

IMACS WEB ENABLEMENT

- **Methods for Web Enabling IMACS**
  - Completely Rewrite IMACS in HTML, JAVA, XML
  - Use Other Development Tools to Completely Rewrite the IMACS Application such as Oracle PL/SQL, Designer, Forms, Reports, Web-DB
  - CA Cool: Gen Web Client Enablement Tool

IMACS WEB ENABLEMENT

- **HTML, JAVA, XML**
  - **Completely Redevelop, Rewrite, and Test IMACS**
  - **Requires User Participation in Redesign**
  - **High Labor Cost**
  - **Long Labor Intensive Development Time**
  - **Limited Availability of Technical Expertise**

IMACS WEB ENABLEMENT

- **Oracle PL/SQL, Designer, Forms, Reports, Web-DB**
  - **Completely Redevelop, Rewrite, and Test IMACS Application**
  - **Requires User Participation in Redesign**
  - **Long Labor Intensive Development Time**
  - **High Labor Cost**

IMACS WEB ENABLEMENT

- **CA Cool: Gen Web Client Enablement Tool**
  - **Utilize Existing IMACS Application - No Redesign**
  - **User Participation Limited to New Functionality and Look and Feel**
  - **Initial Software Cost**
  - **Limited Customization Required**
  - **Shorter Development Time Lower Development Cost**
  - **Maintain dual Web/Client Server Environments**

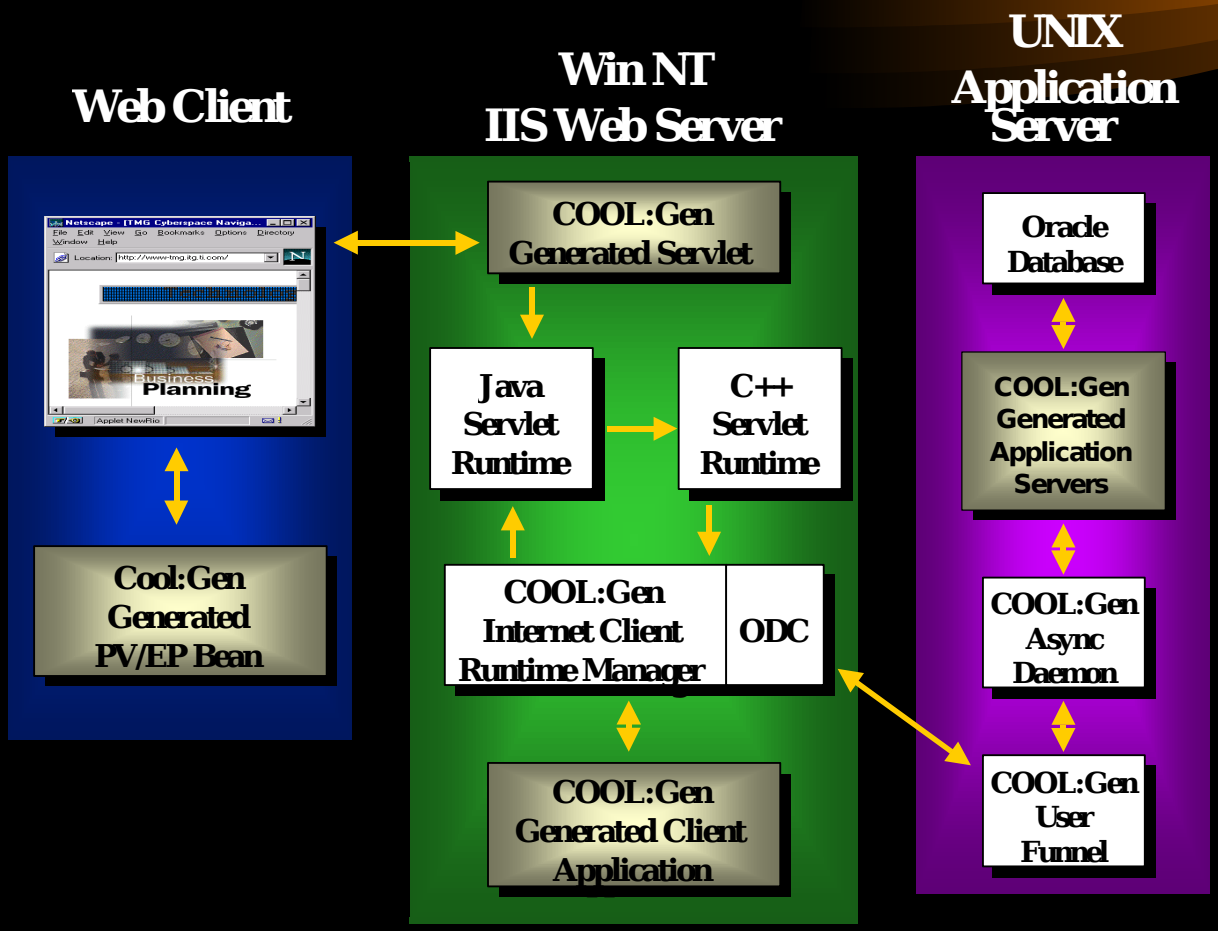
IMACS WEB ENABLEMENT

- COOL:Gen currently offers four methods to support web client access to COOL:Gen deployed application server modules:
  - COM Proxy, Java Proxy, C Proxy and Web Client Enablement (WCE).
- The WCE is the recommended solution for the IMACS application.

IMACS WEB ENABLEMENT

- Cool: Gen Web Client Enablement Software
  - Advantage
    - WCE generates the complete COOL:Gen GUI client as a web client for deployment on a Windows NT web server
  - Disadvantage
    - Not all Window design features are supported by the WCE

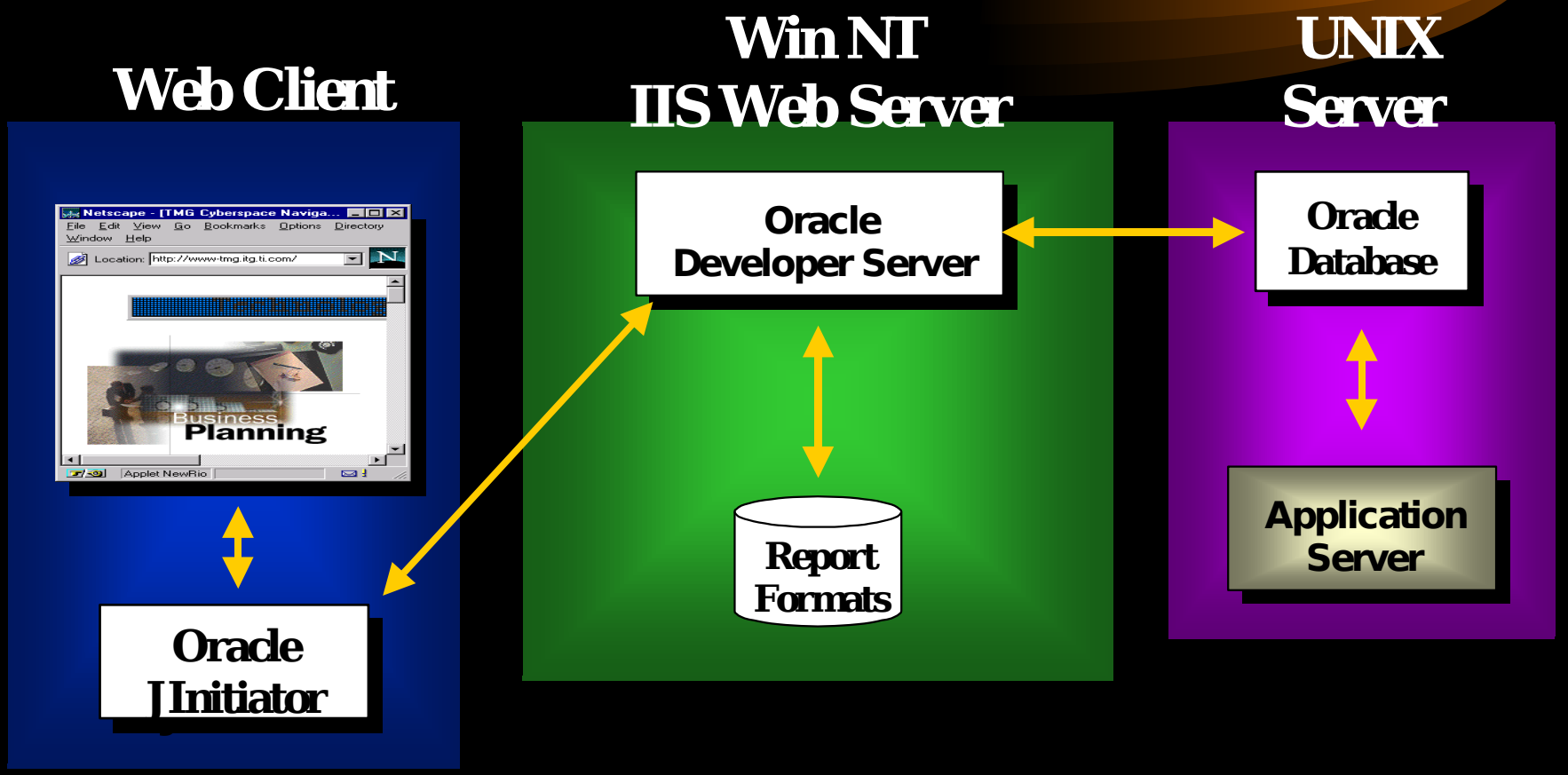
IMACS WEB ENABLEMENT



IMACS WEB ENABLEMENT

- Oracle Reports Web Based Architecture Software
  - Advantage
    - The processing of Oracle Reports is moved from the client workstation to the web server.
    - After recompiling, under Oracle Developer Server, the current Oracle Reports may be used for the web based solution
  - Disadvantage
    - Each user workstation accessing Oracle Reports on the web must have the JInitiator installed

IMACS WEB ENABLEMENT



IMACS WEB ENABLEMENT

- Development environment required for moving IMACS to the web includes:
  - WCE software development tools
  - Limited third party software
  - Web server

IMACS WEB ENABLEMENT

- Production environment required for moving IMACS to the web primary focuses on the web server.
- The COOL:Gen application server and Oracle database will not change.
- The client environment will consist of a web browser with the Oracle JInitiator web browser Java JRE plug-in.
- Majority of the changes will involve the web server

IMACS WEB ENABLEMENT

- Recommended software solution to bring IMACS to the Web is:

COOL:Gen Web Client Enablement Software

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